

**Myobrevin** 

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Loss of VAMP5 in mice results in duplication of the ureter and insufficient expansion of the lung. www.sysy.com

Ikezawa M, Tajika Y, Ueno H, Murakami T, Inoue N, Yorifuji H

The localization of VAMP5 in skeletal and cardiac muscle.

Selected References SYSY Antibodies

Takahashi M, Tajika Y, Khairani AF, Ueno H, Murakami T, Yorifuji H

Histochemistry and cell biology (2013) 139(4): 573-82. WB, IHC

Developmental dynamics: an official publication of the American Association of Anatomists (2018): . WB, IHC: KO verified:

tested species: mouse

Characterization of VAMP isoforms in 3T3-L1 adipocytes: implications for GLUT4 trafficking.

Sadler JB, Bryant NJ, Gould GW

Molecular biology of the cell (2015) 26(3): 530-6. WB

Effects of contraction on localization of GLUT4 and v-SNARE isoforms in rat skeletal muscle.

Rose AJ, Jeppesen J, Kiens B, Richter EA

American journal of physiology, Regulatory, integrative and comparative physiology (2009) 297(5): R1228-37. WB

## **Selected General References**

VAMP5 and VAMP8 are most likely not involved in primary open-angle glaucoma.

Brinkman JF, Ottenheim CP, de Jong LA, Zegers RH, de Smet MD, de Jong PT, Bergen AA

Molecular vision (2005) 11: 582-6.

The cytoplasmic domain of Vamp4 and Vamp5 is responsible for their correct subcellular targeting; the N-terminal extenSion of VAMP4 contains a dominant autonomous targeting signal for the trans-Golgi network.

Zeng Q, Tran TT, Tan HX, Hong W

The Journal of biological chemistry (2003) 278(25): 23046-54.

A novel synaptobrevin/VAMP homologous protein (VAMP5) is increased during in vitro myogenesis and present in the plasma

Zeng Q, Subramaniam VN, Wong SH, Tang BL, Parton RG, Rea S, James DE, Hong W Molecular biology of the cell (1998) 9(9): 2423-37.

## **Data Sheet**

Cat.No. 176 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Reconstitution/ Storage	$50~\mu g$ specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add $50~\mu l~H_2O$ to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB</b> : 1: 1000 up to 1: 5000 (AP staining) <b>IP</b> : not tested yet <b>ICC</b> : 1: 1000 <b>IHC</b> : yes <b>IHC</b> -P/FFPE: 1: 200
Immunogen	Recombinant protein corresponding to AA 1 to 70 from mouse Myobrevin (UniProt Id: Q9Z2P8)
Reactivity	Reacts with: mouse (Q9Z2P8). No signal: rat. Other species not tested yet.
Specificity	Specific for myobrevin. (K.O. verified)
matching control	176-0P

## TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Myobrevin, also known as VAMP 5 belongs to the family of vesicle-associated membrane proteins and has a theoretical molecular weight of 11.4 kDa. Like other VAMP isoforms it is composed of an Nterminal cytoplasmic region and a C-terminal transmembrane domain.

Vamp 5 is preferentially expressed in skeletal muscle and heart tissue and is upregulated during the differentiation of C2C12 cells into myotubes.